

MOTOR-DRIVEN CYLINDER DEVICE

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Abstract of JP3245749

PURPOSE: To simplify a structure, to shorten its length and to increase its thrust by mounting a ball nut at the output shaft of a special motor through a reduction gear mechanism, and passing a ball thread rod having one end to be slidably engaged with the hollow part of the output shaft through the ball nut.

CONSTITUTION: The output shaft 5 of a special motor 1 is formed with a pinion 5a as an engaging part at its left side, formed in a hollow shape, a planetary gear unit 10 as a reduction gear mechanism for reducing the rotating speed of the shaft 5 through engagement with the pinion 5a of the output shaft 5 is mounted on a bracket 6, a ball nut 12 is fixed to the output side of the unit 10, a ball thread rod 13 is passed through the nut 12, and slidably engaged with the hollow part of the shaft 5. Thus, its structure is simple, its length is short, an output rod is rotated at a low speed, and a high thrust can be generated.

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